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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/938,106	08/23/2001	James M. Derderian	4832US (01-0104)	1038
2.2	7590 08/01/2002		EXAMINER	
TRASK BRITT P.O. BOX 2550 SALT LAKE CITY, UT 84110			COSTANZO, PATRICIA M	
SALILARE	CITT, OT OTTIO		ART UNIT	PAPER NUMBER
			2811	
			DATE MAILED: 08/01/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application No.	Applicant(s)				
o	•	09/938,106	DERDERIAN, JAMES M.				
. 1	Office Action Summary	Examiner	Art Unit				
		Patricia M. Costanzo	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
THE MAI - Extensions after SIX (- If the peric - If NO peric - Failure to - Any reply	TENED STATUTORY PERIOD FOR REPLY LING DATE OF THIS COMMUNICATION. Is of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. It of the reply specified above is less than thirty (30) days, a reply of for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing tent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) of ill apply and will expire SIX (6) MONTHS frocause the application to become ABANDOI	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).				
	esponsive to communication(s) filed on						
<i>,</i> —	•	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition							
· ·	$\lim(s) \frac{1-69}{s}$ is/are pending in the application						
	Of the above claim(s) is/are withdraw	n from consideration.					
•	5) Claim(s) is/are allowed.						
•							
,	aim(s) is/are objected to.						
,	nim(s) <u>1 - 69</u> are subject to restriction and/or	election requirement.					
Application	•						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
-	-						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) [The translation of the foreign language pro nowledgment is made of a claim for domesti	visional application has been r	eceived.				
Attachment(s)		. ,					
1) Notice of 2) Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Claims 1 – 22 and 65 - 69 are drawn to a semiconductor device, classified in class 257, subclass 777,

II. Claims 23 – 64 are drawn to a method for manufacturing a semiconductor device, classified in class 438, subclass 106⁺.

The inventions of groups I and II are related as product made and process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)).

In the instant case, the inventions are distinct each from the other because the device for cooling an integrated circuit as recited in Claim 1 could be made by employing a method that is materially altered from the process recited in Claim 23, in that the semiconductor device assembly could be made by placing discrete conductive elements over portions of the active surface of said first semiconductor device and resting said second semiconductor device upon said discrete conductive elements of said first semiconductor device instead of positioning a second semiconductor device upon said first semiconductor device and contacting at least some of discrete

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conductive elements of said first semiconductor device with a backside of said second semiconductor device as recited in Claim 23.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Should Applicant elect Group I claims to be examined, Applicant is advised that this application is further restricted because it contains product Claims 1 - 22 and 65 -69 directed to the following patentably distinct species of the claimed invention:

Embodiment 1 of Figures 1 and 10

Embodiment 2 of Figure 9

Embodiment 3 of Figure 11

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Should Applicant elect Group II claims to be examined, Applicant is advised that this application is further restricted because it contains process Claims 23 – 64 directed to the following patentably distinct species of the claimed invention:

Embodiment 1 of Figures 2 - 8

Embodiment 2 of Figures 12 - 17

Embodiment 3 of Figure 18

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

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case. In either instance, if the examiner finds one of the inventions unpatentable over

the prior art, the evidence or admission may be used in a rejection under 35

U.S.C. 103(a) of the other invention.

Conclusion

Any inquiry concerning this communication should be directed to Patricia

Costanzo at 703 305 5675 on Monday - Friday from 8:00 A.M. - 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful Supervisory

Primary Examiner Tom Thomas can be reached at 703 308 2772.

Any inquiry of a general nature or relating to the status of this application should

be directed to the Group Receptionist at 703 308 0956.

Papers may be faxed directly to Examiner at 703 745 2002.

Using facsimile machines to transmit correspondence is encouraged. The official

Technical Center 2800 before-final FAX number is 703 872 9318 and the after-final FAX

number is 703 872 9319. These FAX numbers will provide the FAX sender with an

auto-reply verifying receipt of their FAX by the United States Patent and Trademark

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Center 2800 Customer Service at 703 306 3329.

pmc

July 29, 2002

TOM THOMAS

SUPERVISORY PATENT EXAMPLER

TECHNOLOGY CENTER 2800